

ABSTRACT

An oxygen concentrating apparatus (10) has an oxygen  
concentrating unit (12), a compressor (26) for supplying  
5 compressed air to the oxygen concentrating unit (12) and  
a compressor housing (28) for accommodating the  
compressor (26). The compressor housing (28) includes a  
plurality of air inlet ports (28a) for introducing the  
air into the compressor housing (28) and an air outlet  
10 opening (28b) for discharging the air from the compressor  
housing (28). A cooling fan (30) is mounted on the  
compressor housing (28) at the air outlet opening (28b)  
for drawing the air from the compressor housing (28).  
The air inlet ports (28a) are disposed adjacent to the  
15 side wall of the compressor (26) to direct the air flow  
induced by the cooling fan perpendicularly to the side  
wall of the compressor (26). The capacity of the cooling  
fan (30) and the diameter of the air inlet ports (28a)  
are selected to ensure the velocity of the air flow  
20 through the air inlet ports (28a) is equal to or lower  
than 15m/sec.